

Figure 1: Orthogonal View of Cross Section of Traces



Figure 2: END-ON VIEW OF TRACE SUSPENDED IN AIR  
Basic Structure of suspended substrate  
in printed wiring board (PCB)

End-on view of conductive trace  
surrounded by air  
suspended on dielectric  
dielectric suspended between conductive planes  
conductive planes acting as ground return for conductive trace

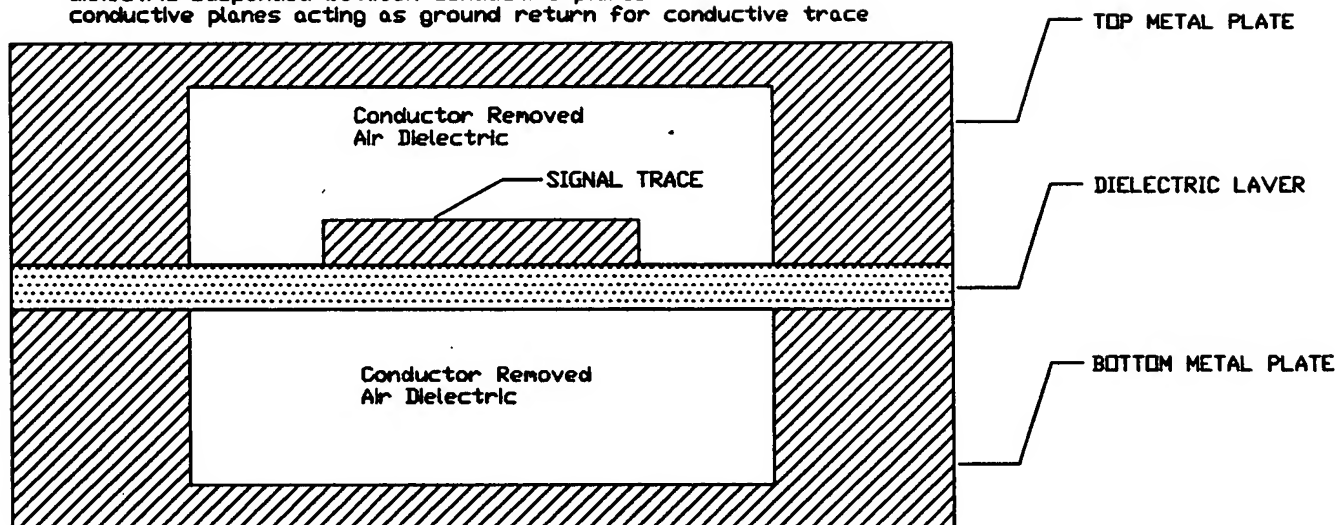




Figure 2A: END-ON VIEW OF TRACES SUSPENDED IN AIR  
Basic Structure of suspended substrate  
in printed wiring board (PCB)

End-on view of conductive traces  
surrounded by air  
suspended on dielectric  
dielectric suspended between conductive planes  
conductive planes acting as ground return for conductive trace  
DIFFERENTIAL TRACES

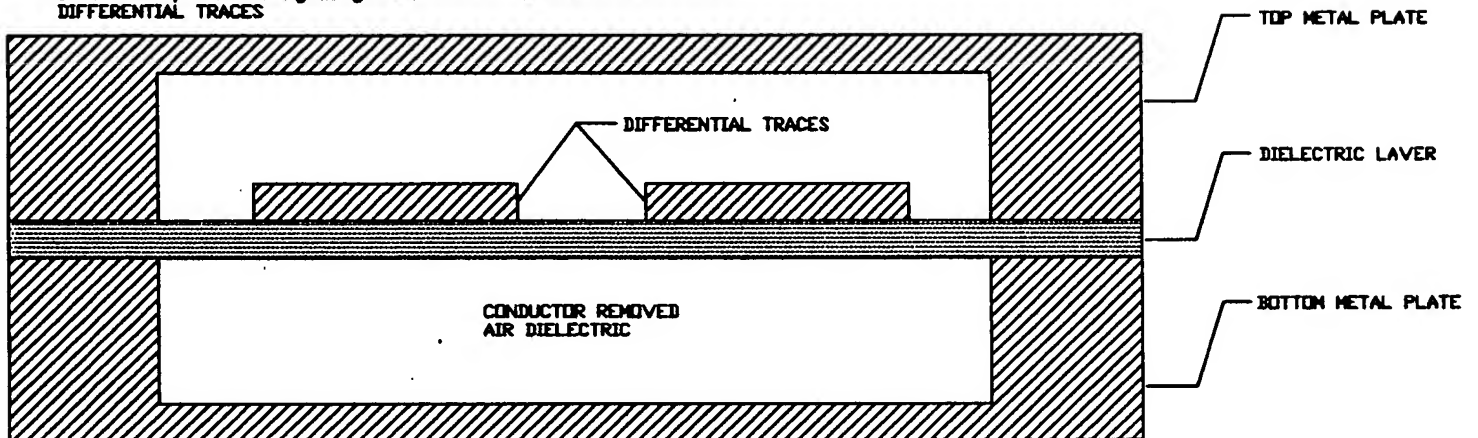




FIGURE 2B: END-ON VIEW OF TRACES SUSPENDED IN AIR  
Basic Structure of suspended substrate  
in printed wiring board (PCB)

End-on view of conductive traces  
surrounded by air  
suspended on dielectric  
dielectric suspended between conductive planes  
conductive planes acting as ground return for conductive trace  
DATA BUS

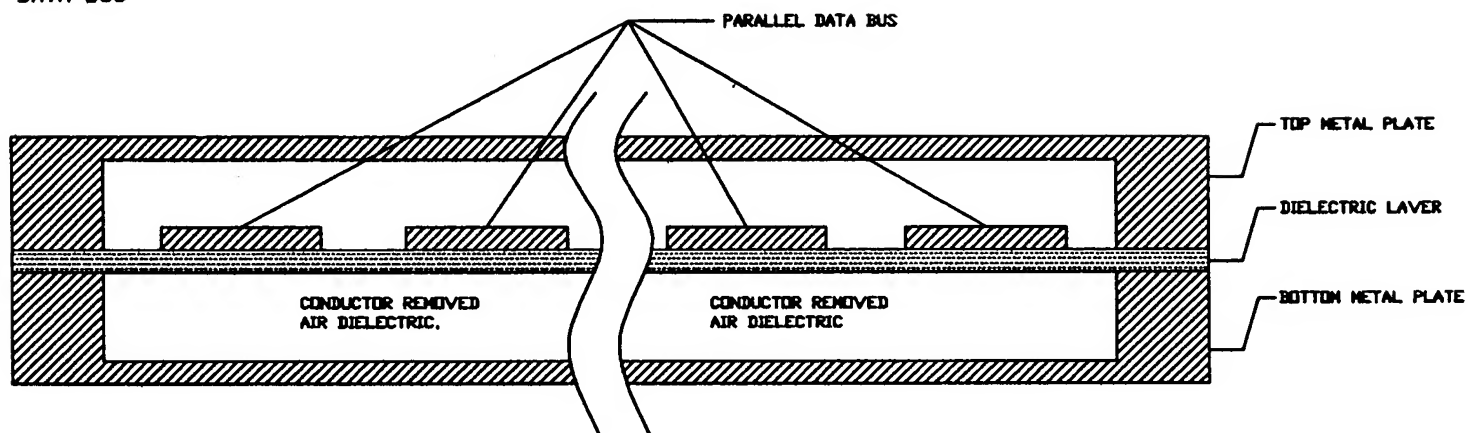
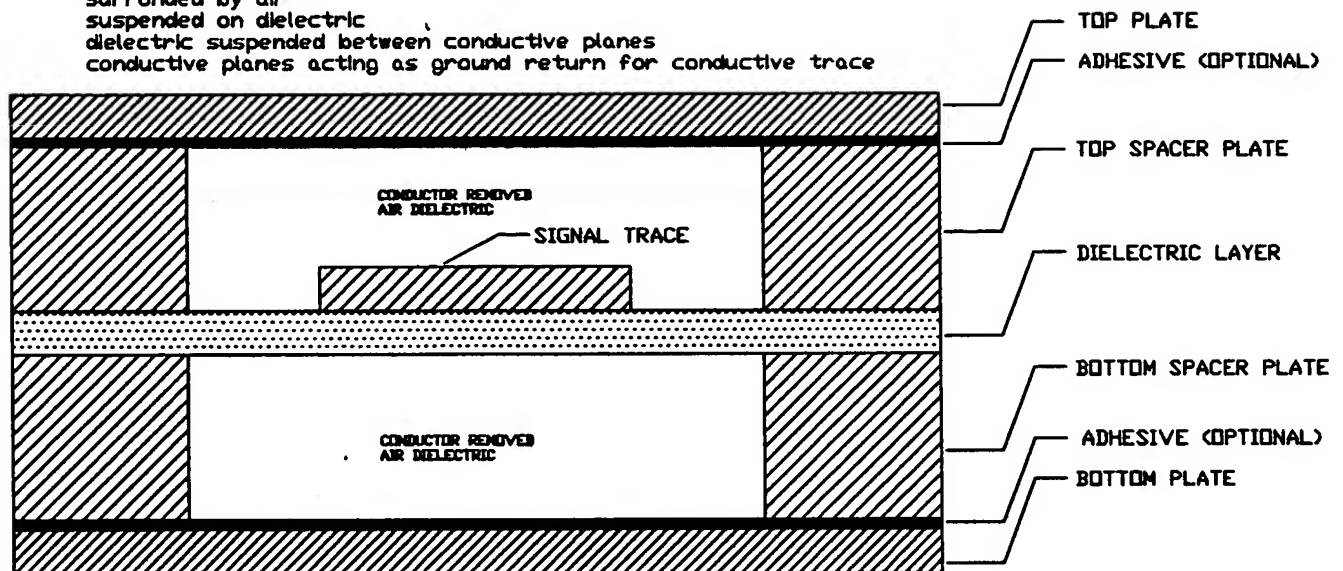




Figure 3: END-ON VIEW OF TRACE  
(ALTERNATE CONSTRUCTION)  
Basic Structure of suspended substrate  
in printed wiring board (PCB)

End-on view of conductive trace  
surrounded by air  
suspended on dielectric  
dielectric suspended between conductive planes  
conductive planes acting as ground return for conductive trace



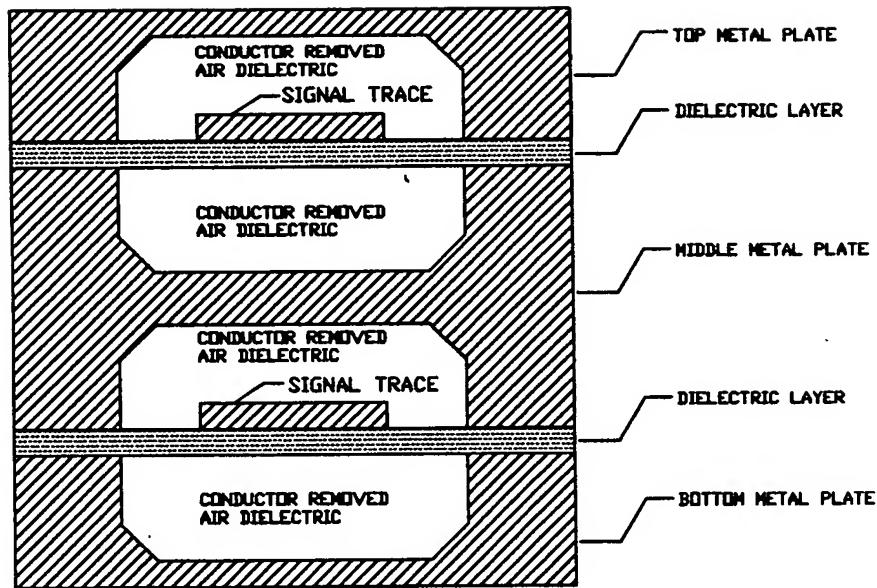


FIGURE 4: END-ON VIEW OF TRACES SUSPENDED IN AIR  
STRUCTURE OF TWO TRACES ON DIFFERENT  
LAYERS SUSPENDED SUBSTRATE IN PRINTED  
WIRING BOARD (PCB).

END-ON VIEW OF CONDUCTIVE TRACES  
SURROUNDED BY AIR  
SUSPENDED ON DIELECTRIC  
DIELECTRIC SUSPENDED BETWEEN CONDUCTIVE PLANES  
CONDUCTIVE PLANES ACTING AS GROUND RETURN FOR CONDUCTIVE TRACES

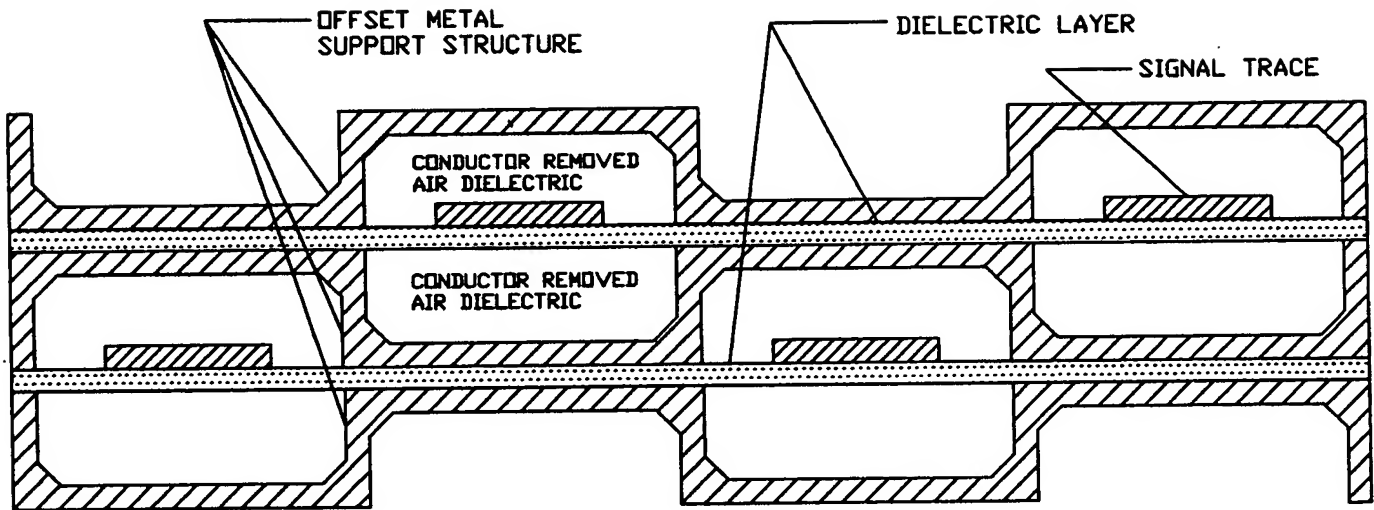


FIGURE 5: END-ON VIEW OF OFFSET CONDUCTIVE TRACES USING OFFSET METAL SUPPORT STRUCTURE.

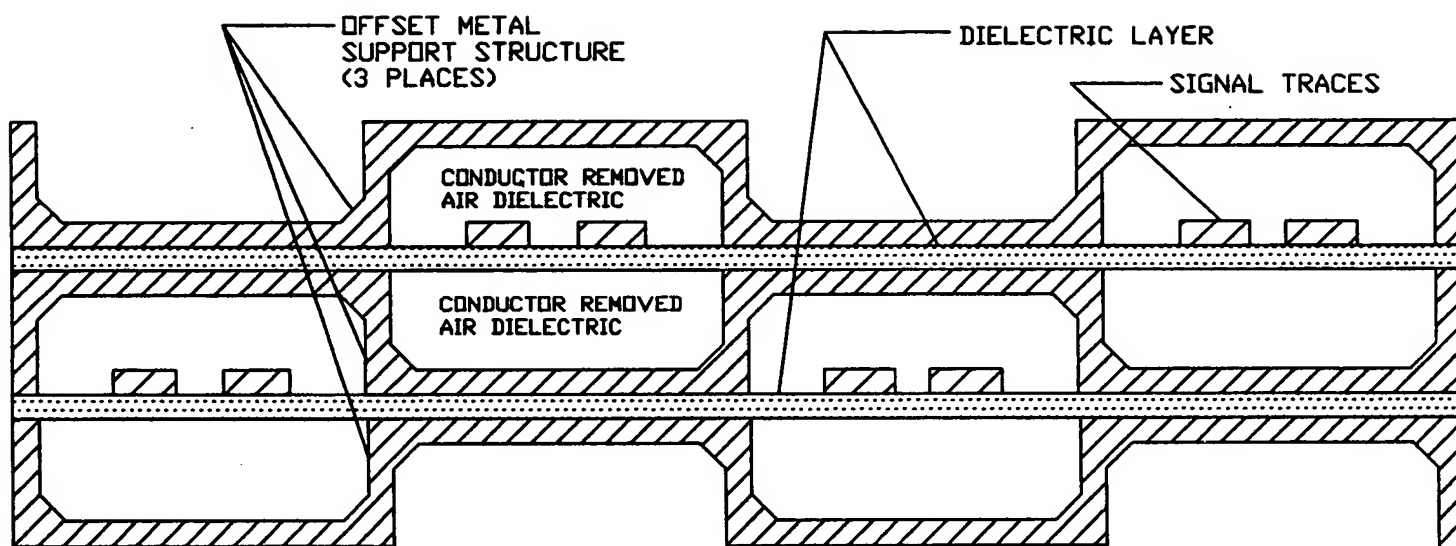


FIGURE 5A: END-ON VIEW OF OFFSET CONDUCTIVE TRACES USING OFFSET METAL SUPPORT STRUCTURE, AND DIFFERENTIAL TRACES